## T0440

## SEQUENCE LISTING

<110> Soppet\_et al.
<120> G-Protein Parathyroid Hormone Receptor HLTDG74

<130> PF201D1

<140> 09/236,468

<141> 1999-01-25

<150> 08/468,011 <151> 1995-06-06

<160> 28

<170> PatentIn Ver. 2.1

<210> 1

<211> 2003

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

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Met Ala Trp Leu Gly Ala Ser Leu

1

cac gtc tgg ggt tgg cta atg ctc ggc agc tgc ctc ctg gcc aga gcc 161
His Val Trp Gly Trp Leu Met Leu Gly Ser Cys Leu Leu Ala Arg Ala
10 15 20

cag ctg gat tct gat ggc acc atc act ata gag gag cag att gtc ctt 209 Gln Leu Asp Ser Asp Gly Thr Ile Thr Ile Glu Glu Gln Ile Val Leu 25 30 35 40

gtg ctg aaa gcg aaa gta caa tgt gaa ctc aac atc aca gct caa ctc 257 Val Leu Lys Ala Lys Val Gln Cys Glu Leu Asn Ile Thr Ala Gln Leu
45 50 55

cag gag gga gaa ggt aat tgt ttc cct gaa tgg gat gga ctc att tgt 305 Gln Glu Gly Glu Gly Asn Cys Phe Pro Glu Trp Asp Gly Leu Ile Cys

tgg ccc aga gga aca gtg ggg aaa ata tcg gct gtt cca tgc cct cct 353
Trp Pro Arg Gly Thr Val Gly Lys Ile Ser Ala Val Pro Cys Pro Pro
80 85

tat att tat gac ttc aac cat aaa gga gtt gct ttc cga cac tgt aac 401
Tyr Ile Tyr Asp Phe Asn His Lys Gly Val Ala Phe Arg His Cys Asn
90 95 100

ccc aat gga aca tgg gat ttt atg cac agc tta aat aaa aca tgg gcc 449
Pro Asn Gly Thr Trp Asp Phe Met His Ser Leu Asn Lys Thr Trp Ala
105 110 120



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FECHCENTER TOURSES

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	_	_	_		_			aac Asn				_				641
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Pro Ile Leu Ala Ala Ile Gly Leu Asn Phe Ile Leu Phe Leu Asn Thr

325 330 335

Val Arg Val Leu Ala Thr Lys Ile Trp Glu Thr Asn Ala Val Gly His 340 345 350

Asp Thr Arg Lys Gln Tyr Arg Lys Leu Ala Lys Ser Thr Leu Val Leu 355 360 365

Val Leu Val Phe Gly Val His Tyr Ile Val Phe Val Cys Leu Pro His 370 375 380

Ser Phe Thr Gly Leu Gly Trp Glu Ile Arg Met His Cys Glu Leu Phe 385 390 395 400

Phe Asn Ser Phe Gln Gly Phe Phe Val Ser Ile Ile Tyr Cys Tyr Cys 405 410 415

Asn Gly Glu Val Gln Ala Glu Val Lys Lys Met Trp Ser Arg Trp Asn 420 425 430

Leu Ser Val Asp Trp Lys Arg Thr Pro Pro Cys Gly Ser Arg Arg Cys 435 440 445

Gly Ser Val Leu Thr Thr Val Thr His Ser Thr Ser Ser Gln Ser Gln 450 460

Val Ala Ala Ala His Ala Trp Cys Leu Ser Leu Ala Lys Leu Pro Arg 465 470 475 480

Ser Pro Ala Asp Ser Leu Thr Ala Thr Ser Leu Tyr Leu Ala Met Ser 485 490 495

Gly Val Thr Gln Ser Arg Thr Ala Ser His Thr Leu Ser Thr Arg Ser 500 505 510

Asn Lys Glu Asp Ser Gly Arg Gln Arg Asp Asp Ile Leu Met Glu Lys 515 520 525

Pro Ser Arg Pro Met Glu Ser Asn Pro Asp Thr Glu Gly 530 535 540

<210> 3

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<221> Primer Bind

<223> This  $5^{-}$  primer sequence contains a SmaI restriction enzyme site followed by nucleotides corresponding to PTH receptor coding sequence.

<400> 3

cagccgtccc gggcttggcc tgg

23

<210> 4

<211> 27

<212> DNA

<213> Artificial Sequence

<220> <221> Primer\_Bind <223> This  $3^{T}$  primer sequence contains a SalI restriction enzyme site and a sequence complementary to the human PTH receptor. <400> 4 27 cctcagtgtc gacttgtcat ccttcag <210> 5 <211> 27 <212> DNA <213> Artificial Sequence <220> <221> Primer Bind <223> This 5' primer contains a HindIII restriction enzyme site and a nucleotide sequence corresponding to the 5' UTR of the cDNA encoding human PTH receptor. <400> 5 27 gttggcatat tggaagcttt ttgcggg <210> 6 <211> 28 <212> DNA <213> Artificial Sequence <220> <221> Primer\_Bind <223> This 3' primer sequence contains an XbaI restriction enzyme site, a translation stop codon, and nucleotides complementary to the human PTH receptor coding sequence. cagtttctag atgtcatcct tcagtgtc 28 <210> 7 <211> 39 <212> DNA <213> Artificial Sequence <220> <221> Primer Bind <223> This 5' primer contains a SmaI restriction enzyme site, a nucleotide sequence to provide efficient initiation of translation in eukaryotic cells, and a nucleotide sequence corresponding to the human PTH receptor cDNA, including an initiation codon. <400> 7 39 tcctacccgg gccgccatca tggcctggct ggggggcct <210> 8 <211> 28 <212> DNA <213> Artificial Sequence

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<220>
<400> 8
<400> 9
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<221> Primer Bind <223> This 3' primer contains an XbaI restriction enzyme site and a nucleotide sequence complementary to the 3' untranslated region of the PTH receptor cDNA.

cagtttctag atgtcatcct tcagtgtc

28

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Lys Ser Gln Tyr Ile Gly Cys Lys Ile Ala Val Wet Phe Ile Tyr 25

Phe Leu Ala Thr Asn Tyr Tyr Trp Ile Leu Val Glu Gly Leu Tyr Leu 40

His Asn Leu Ile Phe Val Ala Phe Phe Ser Asp Thr 55

<210> 10 <211> 60 <212> PRT

<213> Didelphis virginiana

<400> 10

Ile Thr Glu Glu Glu Leu Arg Ala Phe Thr Glu Pro Pro Ala Asp 10

Lys Ala Gly Phe Val Gly Cys Arg Val Ala Val Thr Val Phe Leu Tyr 20

Phe Leu Thr Thr Asn Tyr Tyr Trp Ile Leu Val Glu Gly Leu Tyr Leu 40

His Ser Leu Ile Phe Met Ala Phe Phe Ser Glu Lys 50 55

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Phe Val Ala Ala Trp Ala Val Ala Arg Ala Thr Leu Ala Asp Ala Arg 25

Cys Trp Glu Leu Ser Ala Gly Asp Ile Lys Trp Ile Tyr Gln Ala Pro 40



Ile Leu Ala Ala Ile Gly Leu Asn Phe Ile Leu Phe 50 55 60

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<400> 12

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Phe Val Ala Val Trp Val Thr Val Arg Ala Thr Leu Ala Asn Thr Glu 20 25 30

Cys Trp Asp Leu Ser Ser Gly Asn Lys Lys Trp Ile Ile Gln Val Pro 35 40 45

Ile Leu Ala Ala Ile Val Val Asn Phe Ile Leu Phe 50 55 60

<210> 13

<211> 52

<212> PRT

<213> Homo sapiens

<400> 13

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Val Gly His Asp Thr Arg Lys Gln Tyr Arg Lys Leu Ala Lys Ser Thr 20 25 30

Leu Val Leu Val Phe Gly Val His Tyr Ile Val Phe Val Cys 35 40 45

Leu Pro His Ser 50

<210> 14

<211> 52

<212> PRT

<213> Didelphis virginiana

<400> 14

Ile Asn Ile Ile Arg Val Leu Ala Thr Lys Leu Arg Glu Thr Asn Ala 1 5 10 15

Gly Arg Cys Asp Thr Arg Gln Gln Tyr Arg Lys Leu Leu Lys Ser Thr
20 25 30

Leu Val Leu Met Pro Leu Phe Gly Val His Tyr Ile Val Phe Met Ala 35 40 45

Thr Pro Tyr Thr 50

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<210> 15
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Gly Thr Val Gly Lys Ile Ser Ala Val Pro Cys Pro Pro Tyr Ile Tyr
Asp Phe Asn His Lys Gly Val Ala Phe Arg His Cys Asn Pro Asn Gly
Thr Trp Asp Phe Met His Ser Leu Asn Lys Thr Trp
<210> 16
<211> 60
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Asp Gly Phe Cys Leu Pro Glu Trp Asp Asn Ile Val Cys Trp Pro Ala
Gly Val Pro Gly Lys Val Val Ala Val Pro Cys Pro Asp Tyr Ile Tyr
Asp Phe Asn His Lys Gly Arg Ala Tyr Arg Arg Cys Asp Ser Asn Gly
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Ser Trp Glu Leu Val Pro Gly Asn Asn Arg Thr Trp
<210> 17
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Ala Asn Tyr Ser Asp Cys Leu Arg Phe Leu
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Ala Asn Tyr Ser Glu Cys Val Lys Phe Leu
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<400> 22

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1 5 10 15

Ile Thr Glu Glu Glu 20

<210> 23 <211> 59

<212> PRT

<213> Homo sapiens

<400> 23

Thr Gly Leu Gly Trp Glu Ile Arg Met His Cys Glu Leu Phe Phe Asn 1 5 10 15

Ser Phe Gln Gly Phe Phe Val Ser Ile Ile Tyr Cys Tyr Cys Asn Gly
20 25 30

Glu Val Gln Ala Glu Val Lys Lys Met Trp Ser Arg Trp Asn Leu Ser 35 40 45

Val Asp Trp Lys Arg Thr Pro Pro Cys Gly Ser 50 55

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Ser Phe Gln Gly Phe Phe Val Ala Ile Ile Tyr Cys Phe Cys Asn Gly 20 25 30

Glu Val Gln Ala Glu Ile Lys Lys Ser Trp Ser Arg Trp Thr Leu Ala 35 40 45

Leu Asp Phe Lys Arg Lys Ala Arg Ser Gly Ser 50 55

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Ala Gln Leu Asp Ser Asp Gly Thr Ile Thr Ile Glu Glu Gln Ile Val 1 5 10 15

Leu Val Leu Lys Ala Lys Val Gln Cys Glu Leu Asn Ile Thr Ala Gln 20 25 30

Leu Gln Glu Gly Glu 35

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20 25 30

Leu Arg Val Pro Glu 35

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<212> PRT

<213> Homo sapiens

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Ile Thr Leu Pro Gly Tyr Val 20

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<212> PRT

<213> Didelphis virginiana

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